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EXAMINATION OF *URANUS* FOR THE DETECTION OF NEW SATELLITES.

As the opposition of *Uranus* comes at a time of the year when our weather is most unfavorable, there have been very few occasions when the planet has been really well seen. Magnifying powers of 520 and 700 have generally been used, and very rarely 1000. In our best seeing, it would be advantageous to employ 1500 and even 2000. Under fairly good conditions, we have usually seen *Umbriel* and *Ariel* in all parts of their orbits. We are satisfied that no new satellite half as bright as *Ariel* at elongation exists within the orbit of *Umbriel.* It is not likely that any such object exists within the orbit of *Titania.*

When we come to the space beyond *Oberon* it is not possible to speak with certainty from our past observations. With an aperture as large as 36 inches, many small stars are visible in the field of view. If the atmosphere is steady and the circumstances are good, their places can be quickly determined. If, however, the conditions are unfavorable, as they ordinarily have been, it is often necessary to employ all the available time in making sure of the existence of some of the objects seen, and therefore it is possible that others have escaped notice. It is not practicable to be more definite in statement at present. E. S. H., J. M. S.

DISCOVERY OF A NEW CRATER ON THE MOON NEGATIVES OF THE LICK OBSERVATORY, BY PROFESSOR WEINEK OF PRAGUE.

[It is known that Professor WEINEK is making a careful study of the Moon negatives of the Lick Observatory, and is recording his results in drawings from the negatives which he enlarges 10-fold. See *Publ.* A. S. P. vol. III, page 253. He has already spent more than 200 hours of actual work on such drawings on 101 different days and has completed several drawings which it is hoped to publish shortly. Some 40–50 hours of work are required for a single crater. He has lately discovered a new crater on one of our negatives and at his request I give a brief description of its position, etc. I may add that a letter lately received from Professor WEINEK says that he has found that our best negatives (as for example that of August 31, 1890) require to be enlarged in the drawing *twenty-fold* in order to show all the features. This corresponds to a magnifying power of more than